

Unit Outline (Higher Education)

Institute / School:	Institute of Health and Wellbeing
Unit Title:	NURSING CONTEXT 6: PATHOPHYSIOLOGY AND PHARMACOLOGY APPLIED TO PERSON-CENTERED NURSING PRACTICE A
Unit ID:	NURBN2023
Credit Points:	15.00
Prerequisite(s):	Nil
Co-requisite(s):	(NURBN2022)
Exclusion(s):	Nil
ASCED:	060301

Description of the Unit:

This unit focuses on pathophysiology and pharmacology for nursing care. In this unit, students will have the opportunity to extend their knowledge and skills in relation to the pathophysiology of the cardiovascular, respiratory, nervous, digestive and musculoskeletal systems across the lifespan. Students will gain a comprehensive understanding of each of the National Health Priority areas by examining the aetiology, pathophysiology, assessment, diagnostic testing and pharmacology related to common disease conditions. Students will be expected to identify and relate safe, effective, evidence-based pharmacological interventions and strategies for management and treatment of commonly identified conditions.

Grade Scheme: Graded (HD, D, C, P, MF, F, XF)

Work Experience:

Not wholly work experience: Student is not undertaking work experience in industry or student is undertaking work experience in industry where learning and performance is directed by the provider.

Does Recognition of Prior Learning apply to this Unit? No

Placement Component: No

Supplementary Assessment: Yes

Where supplementary assessment is available a student must have failed overall in the Unit but gained a final mark of 45 per cent or above and submitted all major assessment tasks.

CourseLevel:

Level of Unit in Course	AQF Level of Course					
	5	6	7	8	9	10
Introductory	■	■	■	■	■	■
Intermediate	■	■	✓	■	■	■
Advanced	■	■	■	■	■	■

Learning Outcomes:

Knowledge:

- K1.** Critically examine and explain the pathologic effects of selected disease processes from National Health Priority area at the cellular and systemic levels
- K2.** Identify and assess appropriate/inappropriate responses to therapy
- K3.** Identify the roles of the professional nurse in relation to medication administration and education and clinical care standards
- K4.** Analyse and describe characteristics of major groups and selected individual medications in terms of the following; mechanism(s) of action, drug effects, therapeutic uses, side effects and adverse effects, toxicity and management of overdoses, interactions, and nursing responsibilities related to administration, monitoring, and teaching

Skills:

- S1.** Use the clinical reasoning cycle to understand the connection between pathophysiological and pharmacological principles as a basis for nursing practice
- S2.** Assess pathophysiological basis of delirium resulting from the endocrine; hepatic/immune; renal; reproductive systems; and the special senses

Application of knowledge and skills:

- A1.** Interpret diagnostic tests in relation to objective and subjective symptomatology
- A2.** Apply pathophysiological concepts of disease to the management of commonly occurring conditions across the life span
- A3.** Apply pharmacological concepts of treatment of commonly occurring National Health Priority area conditions across the life span

Unit Content:

The current NMBA Registered Nurse Standards for Practice, NMBA Code of Conduct for Nurses, Code of Ethics for Nurses, National Safety and Quality Health Service Standards, Aged Care Quality Standards, National Health Priority Areas and where applicable the NMBA National Competency Standards for the Midwives, NMBA Code of Conduct for Midwives, ICM/NMBA Code of Ethics for Midwives have informed the content development of this unit.

- Pathophysiology of the National Health Priority Areas for diseases of the cardiovascular, respiratory, nervous, digestive and musculoskeletal systems
- Medication nomenclature and classification of common classes of medications used to treat specific cardiovascular, respiratory, nervous, digestive and musculoskeletal systems throughout the lifespan
- Pharmacokinetics and pharmacodynamics of common classes of medications used to treat specific cardiovascular, respiratory, nervous, digestive and musculoskeletal systems throughout the lifespan
- Drug actions and changes in drug actions in disease processes of the cardiovascular, respiratory,

- nervous, digestive and musculoskeletal systems
- Common adverse actions of pharmacological treatments of cardiovascular, respiratory, nervous, digestive and musculoskeletal systems
- Drug administration principles – safe drug calculation practices
- Interpretation of diagnostic tests in relation to cardiovascular, respiratory, nervous, digestive and musculoskeletal systems across the lifespan
- Contextualise and assess nursing graduate capabilities and Practice Standards allocated to this unit

Learning Task and Assessment:

A 15-credit point unit will involve a minimum of 150 hours of learning. For every one hour of teacher-directed learning, there will be a minimum of two hours of learner directed learning. Additional hours will be required to complete the associated assessment tasks. Learner-directed hours will include self-directed learning, directed activities and formative assessment opportunities via the learning management system. The teacher-directed hours of learning in this unit will be through a variety of in-person or online small group learning sessions. Students are expected to attend and engage with all scheduled classes as per the assessment hurdle requirements for this unit.

The hurdle assessment task is excluded from supplementary assessment.

Learning Outcomes Assessed	Assessment Tasks	Assessment Type	Weighting
K1, K2, K3, K4 S1, S2, A1, A2, A3	Attendance at Active Learning Sessions	80% Attendance at Active Learning Sessions	S/U Hurdle
K4, A3	Medication Competency Assessment Contextualise and assess nursing graduate attributes allocated to this unit	MedSafe	S/U Hurdle
K1, K2, K3, K4 S1, S2, A1, A2, A3	Application of clinical reasoning cycle in the context of pathophysiology, pharmacology and nursing practice in the form of a video.	Asynchronous Oral Presentation	30-50%
K1, K2, K3, K4, S1, S2, A1, A2, A3	Assessment of principles of pathophysiology for nursing practice	Examination	50-70%

Alignment to the Minimum Co-Operative Standards (MiCS)

The Minimum Co-Operative Standards (MiCS) are an integral part of the Co-Operative University Model. Seven criteria inform the MiCS alignment at a Course level. Although Units must undertake MiCS mapping, there is NO expectation that Units will meet all seven criteria. The criteria are as follows:

1. Co-design with industry and students
2. Co-develop with industry and students
3. Co-deliver with industry
4. FedTASK alignment
5. Workplace learning and career preparation
6. Authentic assessment
7. Industry-link/Industry facing experience

MiCS Course level reporting highlights how each Course embraces the principles and practices associated with the Co-Operative Model. Evidence of Course alignment with the MiCS, can be captured in the Course Modification Form.

MICS Mapping has been undertaken for this Unit

Yes

Date:

May 12, 2023

Adopted Reference Style:

APA

Refer to the [library website](#) for more information

Fed Cite - [referencing tool](#)